

Claim 1 (amended). A pressure-sensitive adhesive composition based on (co)polymers of acrylic acid methacrylic acid, derivatives of acrylic acid or methacrylic acid, or combinations thereof, which has an at least two-phase domain structure and also an outgassing level of less than 10 $\mu\text{g/g}$, based on the weight of the composition, when measured by the tesa method.

Claim 4 (amended). The pressure-sensitive adhesive composition as claimed in Claim 2 or 3, wherein the monomers A are selected from the group consisting of the acrylates $\text{CH}_2=\text{CHCOOR}$, methacrylates $\text{CH}_2=\text{C}(\text{CH}_3)\text{COOR}$ and combinations thereof, in which the groups R are alkyl radicals having from 4 to 14 carbon atoms.

Claim 5 (amended). The pressure-sensitive adhesive composition as claimed in Claim 2 or 3, wherein at least some of the monomers A have a functional group R' which is capable of coordinative crosslinking.

Claim 6 (amended). The pressure-sensitive adhesive composition as claimed in claim 2 or 3, wherein at least some of the monomers A have a functional group R'' which possesses a cohesion-enhancing effect for the homopolymer or copolymer P(A), for the overall block copolymer or for both.

Claim 7 (amended). A process for preparing the pressure-sensitive adhesive composition of Claim 1, using a polyacrylate solution obtainable by free-radical polymerization, which comprises

- a concentration process in which
- ◆ following polymerization, an entrainer is added to the polyacrylate solution,

- ◆ the polyacrylate solution with the added entrainer is passed into an extruder in which the polyacrylate solution is subjected to a carrier distillation,
- ◆ as a result of the concentration a polyacrylate composition of a kind is produced which is processed further from the melt

and the concentrated polyacrylate composition, optionally, is applied to a backing material.

Claim 8 (amended). The process as claimed in claim 7, wherein, following the concentration, a postpurification is carried out in at least one further step by adding the same or another entrainer to the concentrated polyacrylate composition and conducting a further carrier distillation in the extruder.

Claim 9 (amended). The process as claimed in Claim 7 or 8, wherein at least the extruder in the concentration step is a corotating or counterrotating twin screw extruder.

Claim 10 (amended). The process as claimed in Claim 7 or 8, wherein steam is used as entrainer.

Claim 11 (amended). An adhesive tape comprising a backing material having applied to one or both sides at least one film of a pressure-sensitive adhesive composition as claimed in Claim 2 or 3.

Claim 12 (amended). The adhesive tape as claimed in claim 7, wherein said backing material has an outgassing tendency of less than 5 µg/g.

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